

## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all previous version or listing of the claims:

### **Listing of Claims:**

Claims 1-27: Cancelled.

Claim 28 (Previously presented): A burner for a heater for combustion of a hydrocarbon liquid, the burner comprising:

a combustion chamber having a combustion zone for combusting the hydrocarbon liquid and at least one tank portion for containing an amount of the hydrocarbon liquid, the or each tank portion being positioned adjacent the combustion zone and being arranged to feed the hydrocarbon liquid into the combustion zone, and a fuel inlet portion having a closure; and

a combustion control means for controlling gas exchange of the combustion zone through an gas exchange opening of the combustion chamber,

wherein the burner is arranged so that the fuel inlet opening is only fully open when the combustion control means closes at least a portion of the gas exchange opening of the combustion chamber.

Claim 29 (Previously presented): The burner as claimed in claim 28 wherein the combustion control means comprises a shutter for controlling the gas exchange through the gas exchange opening of the combustion chamber.

Claim 30 (Previously presented): The burner as claimed in claim 29 wherein the shutter for controlling gas also is arranged for closing the fuel inlet opening.

Claim 31. Cancelled.

Claim 32 (Previously presented): A burner for a heater for combustion of a hydrocarbon liquid, the burner comprising:

a combustion chamber having a combustion zone for combusting the

hydrocarbon liquid and at least one tank portion for containing an amount of the hydrocarbon liquid, the or each tank portion being positioned adjacent the combustion zone and being arranged to feed the hydrocarbon liquid into the combustion zone, the or each tank portion being at least in part filled with a filling material having a plurality of portions that pass through the interior of the or each tank portion;

a combustion control means for controlling gas exchange of the combustion in a first combustion zone, the control means comprising an opening that allows diffusion of oxygen into the combustion chamber and a shutter that is arranged to adjust the opening so as to control the combustion the combustion zone; and

a fuel inlet opening for filling the hydrocarbon liquid into the burner,  
wherein the filling material is arranged for distribution of at least some of the heat that is developed in the combustion zone and is directed into the or each tank portion whereby at least one local heat maximum in the tank portion is reduced, thereby reducing the likelihood of ignition in the tank portion, and

wherein the burner is arranged so that, when the shutter of the combustion control means is fully open, the fuel inlet opening is closed and only when at least a portion of the combustion control means is closed, the fuel inlet opening is fully open.

Claim 33 (Previously presented): The burner of claim 32 wherein the burner is arranged so that when the shutter of the combustion control means is fully open, the shutter of the combustion control means closes the fuel inlet opening and only when at least a portion of the shutter of the combustion control means is closed, the fuel inlet opening is fully open.

Claim 34 (Previously presented): A burner for a heater for combustion of a hydrocarbon liquid, the burner comprising:

a combustion chamber having a combustion zone for combusting the hydrocarbon liquid and two tank portions for containing an amount of the hydrocarbon liquid, the combustion zone being positioned between the tank portions and the tank portions being arranged to feed the hydrocarbon liquid into the combustion zone, the tank portions being at least in part filled with a filling material having a plurality of portions that pass through the interior of the tank portions,

wherein the filling material is arranged for distribution of at least some of the heat that is developed in the combustion zone and is directed into the tank portions whereby

at least one local heat maximum in the tank portions is reduced, thereby reducing the likelihood of ignition in the tank portions and wherein the tank portions are separated from the combustion zone by wall portions that comprise apertures to allow the fuel to penetrate from the tank portions into the combustion zone.